Flat Cell Kit
Model K0235

The practical design of the Model K0235 Flat Cell makes it simple and easy to use for corrosion and/or coatings research. It can accommodate a wide range of electrode sizes, eliminating the need for machining or special mechanical procedures. It disassembles quickly and easily, operates with a 250 mL sample volume, and simplifies electrochemical corrosion measurements. The Kit includes:

- 2517-1343A Clamping Screw
- 222694 Clamping Frame
- 2806-0086 Nut, Rhmat
- 2806-0042 Residing Foot
- 219806 Sample End Cap
- 219808 Glass Cylinder
- 2805-0043 Drain Plug
- 2805-0044 Rubber Well Plug
- 219810 Counter Electrode

2517-1345A Shoe Assembly
2811-0280-0 Screw (10-32) SS
MP1239 Gasket, TFE
800877 Screw (84-40) SS X 3/8"
OR0142 Gasket, Viton
3100-0094-0 Tubing, Tyon
219995 Reference Electrode
232117 Tubing, TFE
230213 Cap and Silicon Tubing

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The Flat Cell is constructed of a Pyrex™ glass cylinder body with polypropylene end caps. The Flat Cell’s sample holder can accommodate test electrodes ranging from 3/4-in. (19-mm) diameter discs to 6 x 6-in. (152 x 152-mm) flat panels. In fact, virtually any size specimen can be used, provided it is flat and less than 3/8 in. (9.5 mm) thick.

Specifications

- Dimensions
  - Cell Volume – 250 mL
  - Working to Counter Electrode Distance – 80 mm
  - Working Electrode Area – 1 cm² (standard)
  - Luggin Well Dimensions – 12 mm diameter x 60 mm deep
  - Luggin Well Volume – 5 mL

- Characteristics
  - pH range – 2 to 9
  - Temperature Limit – 80°C
  - Working Electrode Area – 1 cm² (standard)
  - Luggin Well Dimensions – 12 mm diameter x 60 mm deep
  - Luggin Well Volume – 5 mL

- Materials
  - Glass Cylinder - Pyrex
  - End Plates - Polypropylene
  - Sealing Gaskets - Viton
  - Luggin Capillary - Teflon
  - Reference Electrode – Ag/AgCl
  - Reference Electrode Filling Solution – sat AgCl/ sat KCl
  - Counter Electrode – Platinum mesh
  - Sample Gasket - Teflon